

Abstract

The differential pressure sensor of the invention includes
5 a measuring mechanism 1 having a chamber 5 on the high-
pressure side that is sealed by a first dividing membrane 2,
and a chamber 6 on the low-pressure side that is sealed by
a second dividing membrane 3, wherein the first dividing
membrane 2 is loadable with a pressure acting on the high-
pressure side and the second dividing membrane 3 with a
10 pressure acting on the low-pressure side, and the chamber 5
on the high-pressure side is separated from the chamber 6 on
the low-pressure side by a pressure-sensitive element 4,
especially a measuring membrane, and the chambers of the
high- and low-pressure sides are filled with a transfer
15 medium. For damping of overload pulses acting on the first
dividing membrane 2 on the high-pressure side, a hydraulic
throttle 7 is provided, which is arranged on the low-
pressure side between the second dividing membrane and the
pressure-sensitive element.

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(Fig. 1)